

Supplementary Figures

Figure S1: Molecular structure of solvents (a) Ethanol, (b) Methanol, (c) Isopropanol and (d) 1-Butanol.

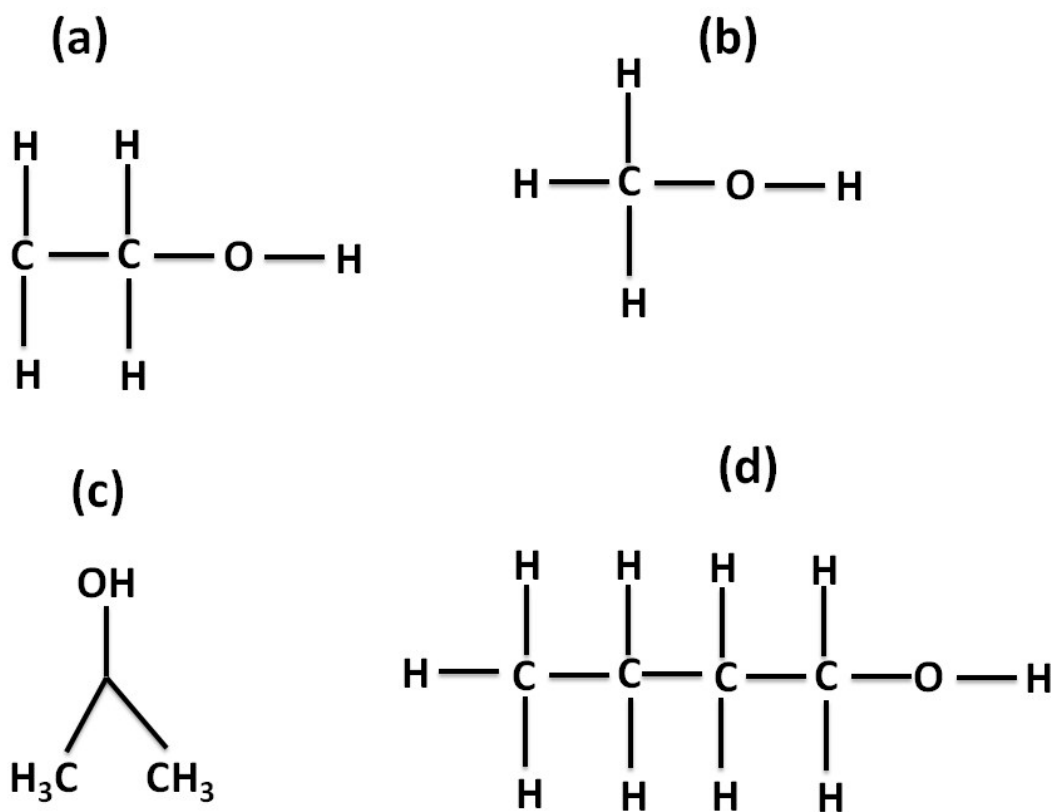


Figure S2: Particle size distribution curve of ZnO using solvents (a) Isopropanol, (b) Ethanol, (c) 1-Butanol and (d) Methanol. The ZnO prepared using water as a solvent exhibits triangular shape structures and the length of the particle is around~360 nm.

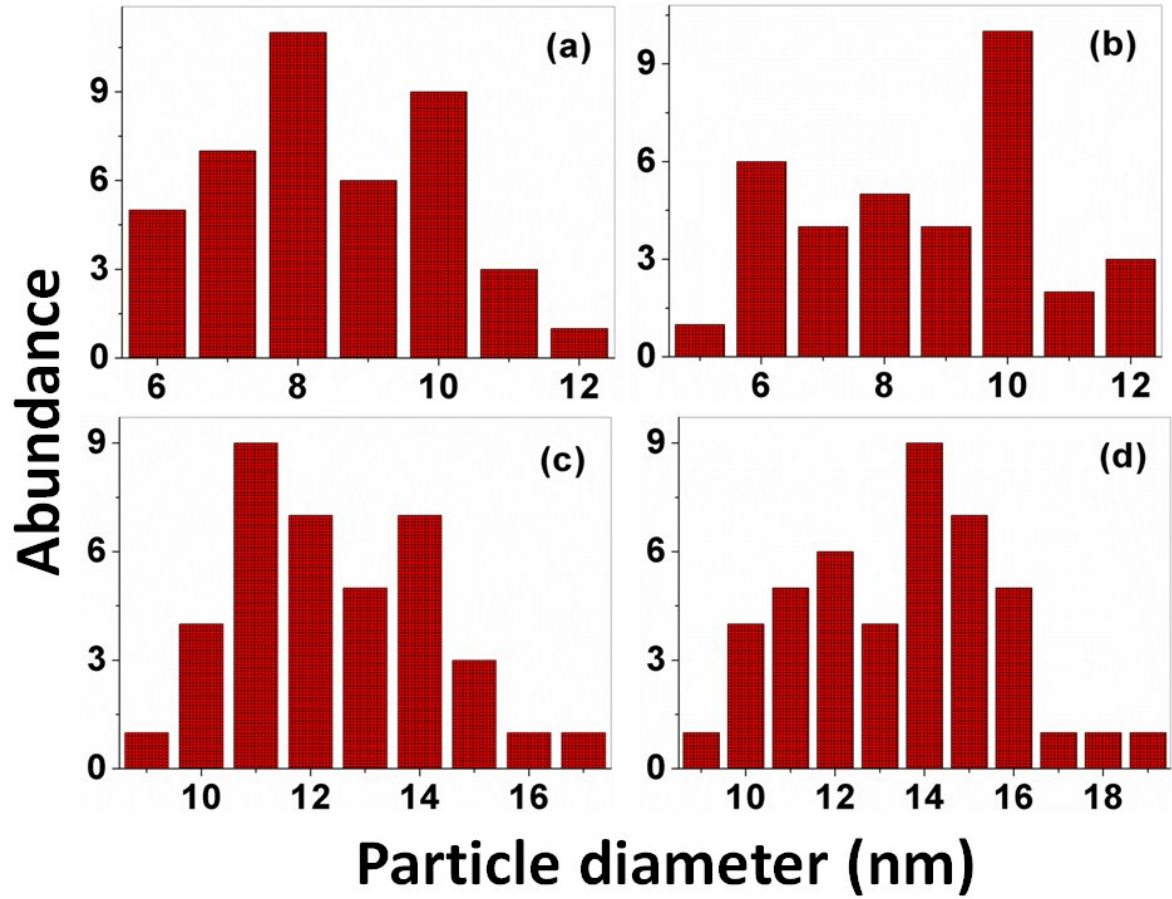


Figure S3 The W-H analysis of prepared ZnO nanostructures assuming UDM.

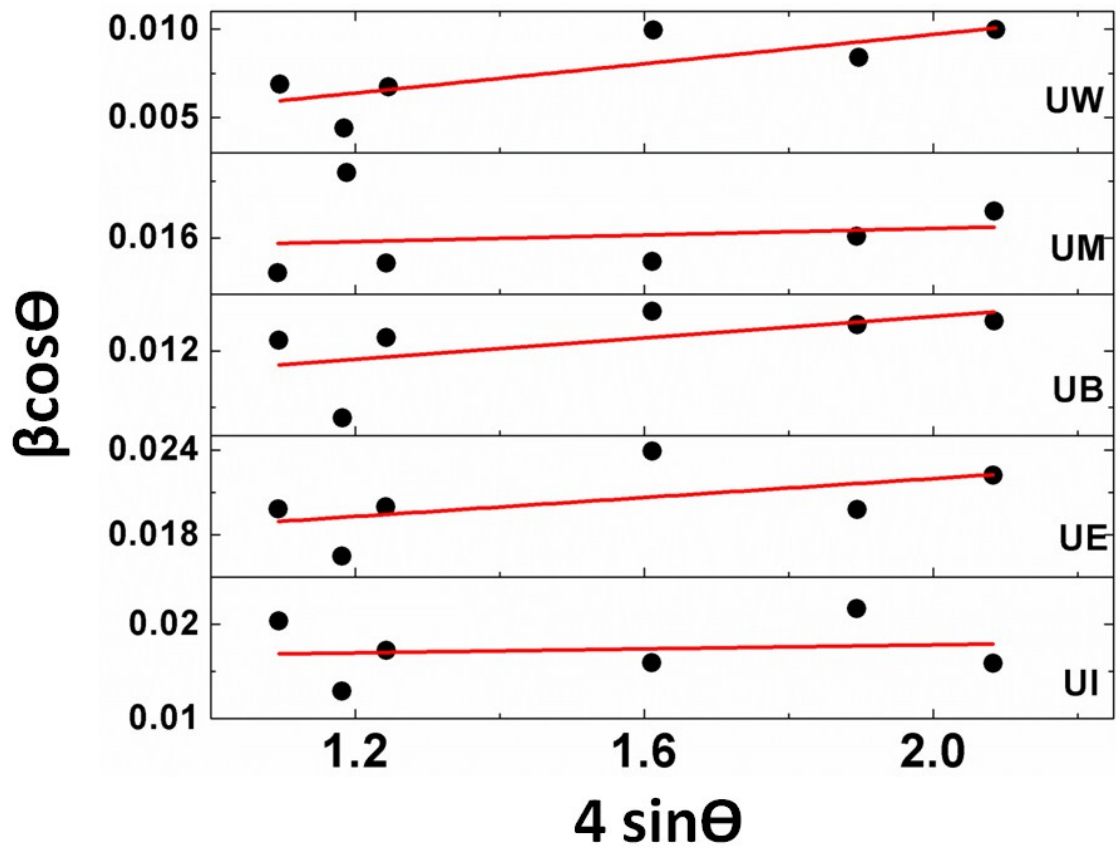


Figure S4 The modified form of W–H analysis of prepared ZnO nanostructures assuming UDSM.

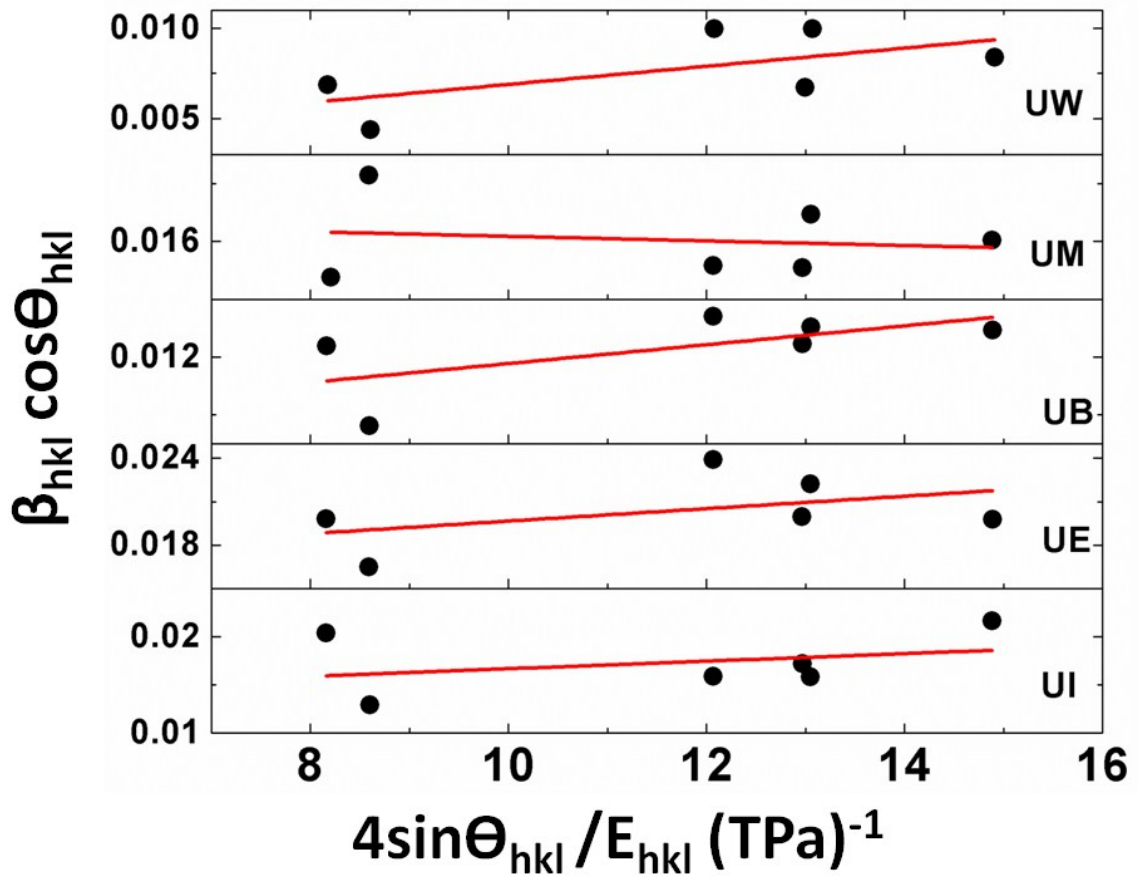


Figure S5 The modified form of W–H analysis assuming UDEDM of prepared ZnO nanostructures.

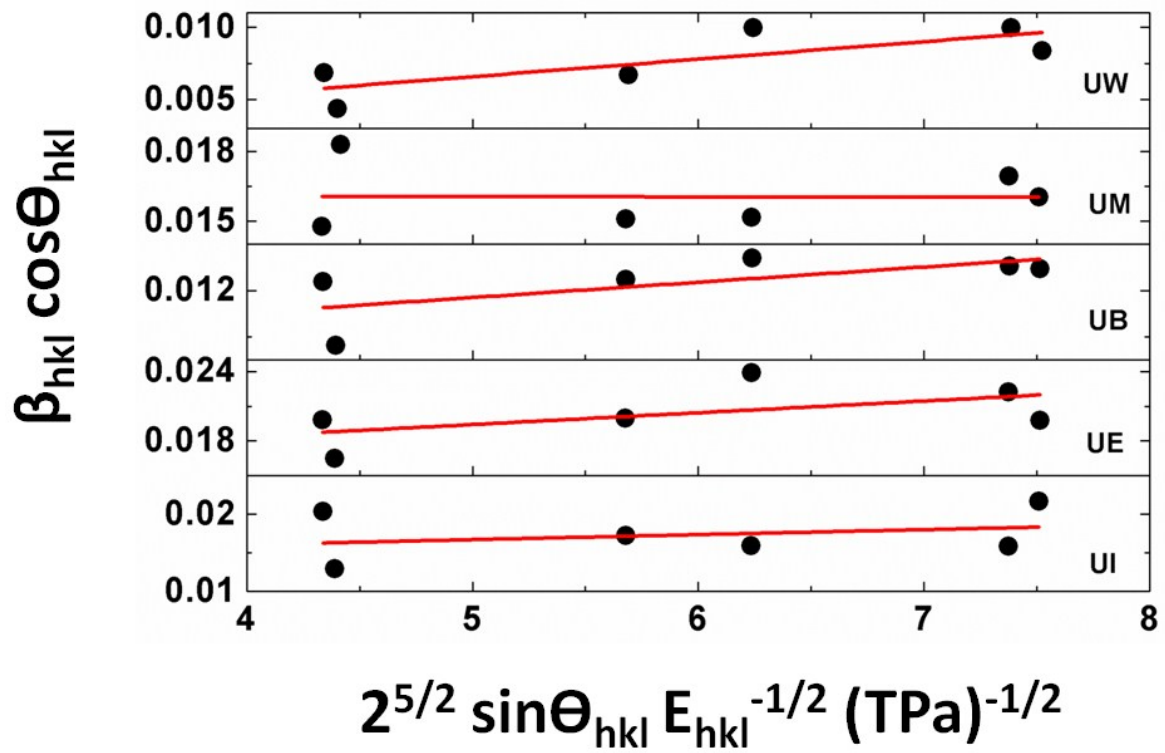


Figure S6 Band gap versus particle radius calculated from Eq. (17) which clearly reveals that band gap of the material is increased as the particle size reduces into few nm regime.

